Glucose-1-Phosphate Adenylyltransferase (glgC) Salmonella Typhimurium Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glucose-1-phosphate adenylyltransferase (glgC), Recombinant Protein
Full Product Name	Recombinant Salmonella typhimurium Glucose-1-phosphate adenylyltransferase (glgC)
Product Gene Name	glgC recombinant protein
Sequence	MVSLEKNDRV MLARQLPLKS VALILAGGRG TRLKDLTNKR AKPAVHFGGK FRIIDFALSN CLNSGIRRIG VITQYQSHTL VQHIQRGWSL FSEEMNEFVD LLPAQQRMKG ENWYRGTADA VTQNLDIIRR YKAEYVVILA GDHIYKQDYS RMLIDHVEKG ARCTVACMPV PIKEATAFGV MAVDESDKII DFVEKPANPP AMPGDASKSL ASMGIYVFDA DYLYELLAAD DKDDASSHDF GKDIIPKITR EGMAYAHPFP LSCVQSDPQA EPYWRDVGTL EAYWKANLDL ASVTPELDMY DQNWPIRTHM ESLPPAKFVQ DRSGSHGMTL NSLVSGGCII SGSVVVQSVL FPRVRINSFC NIDSAVLLPE VWVGRSCRLR RCVIDRACII PEGMVIGENA EEDARRFYRS EEGIVLVTRE MLRKLQVKQE R
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	48,462 Da
Sequence Positions	1-431, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P05415
Species	Salmonella typhimurium (strain LT2 / SGSC1412 / 700720)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glgC recombinant protein	MBS1226093 is a recombinant protein targeting glgC. Also known as Recombinant Salmonella typhimurium Glucose-1-phosphate adenylyltransferase (glgC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glgC recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for glgC. It may not necessarily be applicable to this product.

NCBI GI #	16766822
NCBI GeneID	1255059
NCBI Accession #	NP_462437.1
UniProt Primary Accession #	P05415

UniProt Related Accession #	P05415
GenBank Nucleotide #	NC_003197.2
NCBI Official Full Name	glucose-1-phosphate adenylyltransferase
NCBI Official Symbol	glgC
UniProt Protein Name	Glucose-1-phosphate adenylyltransferase
UniProt Synonym Protein Names	ADP-glucose pyrophosphorylase
Protein Family	Glucose-1-phosphate adenylyltransferase
UniProt Gene Name	glgC
UniProt Synonym Gene Names	ADPGlc PPase
NCBI Protein Information	glucose-1-phosphate adenylyltransferase
UniProt Comments for glgC	Involved in the biosynthesis of ADP-glucose, a building block required for the elongation reactions to produce glycogen. Catalyzes the reaction between ATP and alpha-D-glucose 1-phosphate (G1P) to produce pyrophosphate and ADP-Glc.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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